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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/672,088	09/26/2003	Stephen J. Whitney	112690-978	7059
29176	7590	11/01/2005	EXAMINER	
BELL, BOYD & LLOYD LLC				NGUYEN, DANNY
P. O. BOX 1135				ART UNIT
CHICAGO, IL 60690-1135				PAPER NUMBER
				2836

DATE MAILED: 11/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/672,088	WHITNEY, STEPHEN J.
	<b>Examiner</b>	<b>Art Unit</b>
	Danny Nguyen	2836

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

1) Responsive to communication(s) filed on 10 August 2005.  
 2a) This action is **FINAL**.                            2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

4) Claim(s) 1-48 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-48 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

## **DETAILED ACTION**

### ***Response to Arguments***

1. Applicant's arguments 8/10/2005 with respect to claims 20, and 29 have been fully considered. In view of these arguments, claims 20 and 29 are found persuasive, and claim 1 is amended with a new matter.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-19 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 1 recites "physically separating the over-current protection portion and the over-voltage protection portion" while the specification describes the over-current protection portion and the over-voltage protection portion are physically connected <sup>specification</sup> together (see page 5, lines 21-25). Thus, the amended claim 1 generates a new matter which is not described in the specification.

### ***Drawings***

3. The corrected drawing filed 8/10/2005 is approved.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 20-48 are rejected under 35 U.S.C. 102(e) as being anticipated by Whitney et al (USPN 6,628,498).

Regarding claim 20, Whitney discloses an over-current and an over-voltage protection device (figure 3) comprises a first substrate (108) having a surface an electrode (134) disposed on the first surface, a second substrate (110) having a top surface and a bottom surface and an electrode (144) disposed on the bottom surface, a PTC element (106) position between the first and second substrate and electrically connected to the electrode, a voltage suppressor (104) disposed on the top surface of the second substrate and thermally coupled to the PTC element, and a plurality of terminals (120, 122, 124) electrically coupled to the PTC element and the voltage suppressor.

Regarding claims 21-26, Whitney discloses the second substrate includes a heat sink (186),, the voltage suppressor is bonded to the heat sink (col. 8, lines 18-51).

Regarding claims 27, 28, Whitney discloses a voltage variable material (404) disposed on the top surface of the second substrate.

Regarding claims 29, 30, 45 Whitney discloses a circuit protection device (figures 2-3) comprises an over-current protection portion (106) having a surface interposed between substrate layers; an over-voltage protection (104) attached to a circuit board and thermally coupled to the over-current protection portion via a heat transfer (186); and at terminal (120) connected the over-current and over-voltage protection portions to an electrical circuit.

Regarding claims 31-41, Whitney discloses the over-current portion includes first and second electrodes (134, 144) positioned between first and second substrates (108, 110), a heat transfer (186) (col. 6, lines 13-20, col. 8, lines 18-51).

Regarding claims 42-44, Whitney discloses the over-voltage portion comprises a die (204) (figures 7 and 8).

Regarding claims 45-48, Whitney discloses the substrate layers including a first substrate (108), a second substrate (110), the current limiting element (106), first and second electrodes (134, 144), a via (186) (figures 7, 8).

### ***Conclusion***

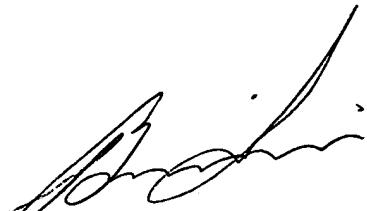
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Danny Nguyen whose telephone number is (571)-272-2054. The examiner can normally be reached on Mon to Fri 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (571)-272-2058. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ON

DN  
10/20/2005



BRIAN SIRCUS  
SUPERVISORY PATENT EXAMINER  
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